WO 2005/037987 PCT/IL2004/000956

1/7

## Fig. 1.

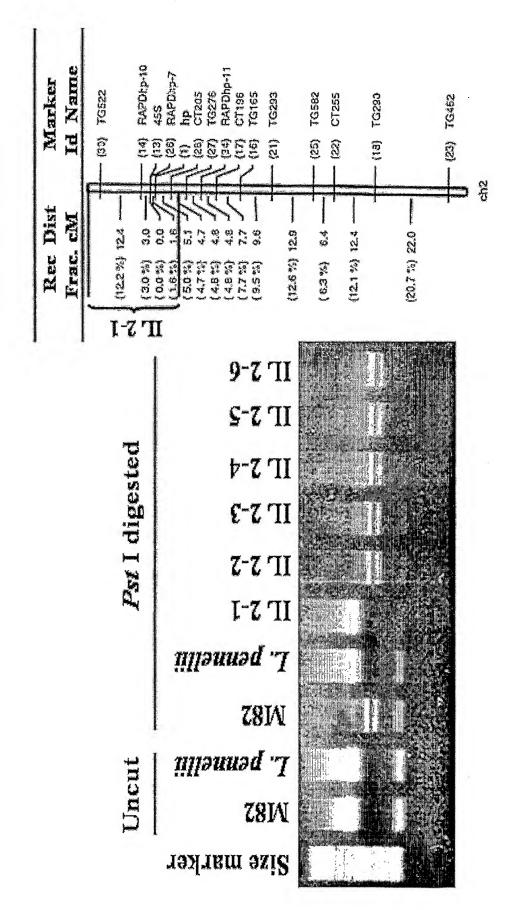
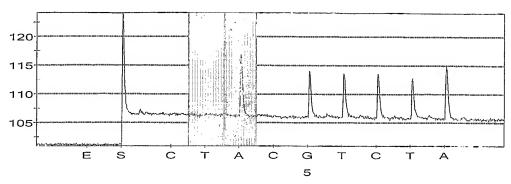


Fig. 2

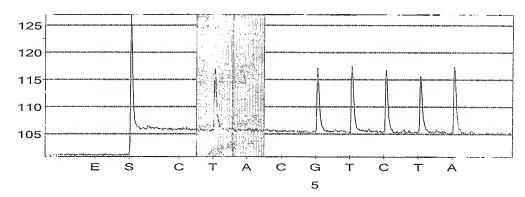
3/7

Fig. 3

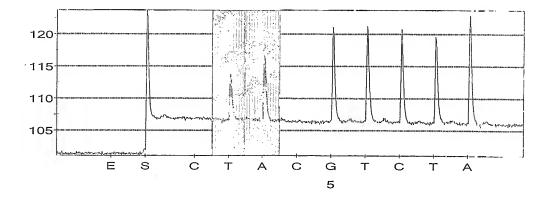
a. *hp-1/hp-1* 

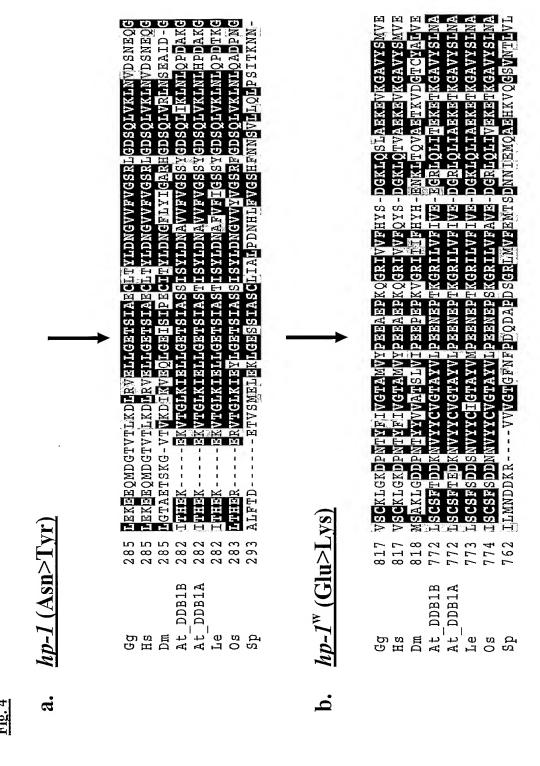


*b.* +/+



c. hp-1/+





**SUBSTITUTE SHEET (RULE 26)** 

## Fig. 5

T ATGRETETALGGAACTACGLGGITACGGCICACAAACAAATGITACACAITCCIGIGIGGCAAITTCCGGTCC
81 ICAAGAGCICAAICITATCATIGCGAAAIGTACTCGAATCGAGATTCATTTACTTACTCCCCAAGGTTTACAGCTATGI
161 TAGATGTGCCAATATATGGGAGGATCGCGACACTTGAGCTTTTTCGTCCTCACGGTGAAACACAAGATCTTCTCTTCATC
241 GCAACAGAGCGATATAAATTCTGTGTCCTTCAATGGGATACTGAGGCATCTGAAGTTATCACAAGAGCAATGGGAGATGT
321 GICAGACCGAAIAGGCCGICCCACAGAIAAIGGICAGAIIGGIAIAAIIGAICCAGAIIGCAGAIIGAICGGGCIACAIC
401 TITATGATGGACTATTTAAGGTTATTCCATTTGATAACAAAGGCCAACTGAAGGAAG
481 CITCAAGITITAGAIAITAAAITCITGIAIGGITGCCCAAAGCCIACAATTGITGITCTAIAICAGGAIAACAAGGAIGC
561 CCGGCATGTCAAAACATATGAGGTGTCCTTGAAAGACAAAGATTTTATTGAAGGGCCCATGGGCTCAAAATAATCTTGATA
641 AIGGAGCTTCTTTGCTAATACCAGTACCTCCACCACTGTGTGTG
721 AGCGCTTCAGCTTTTAAGGCTATCCCAATTAGACCTTCTATCACAAGAGCATATGGGCGGGTTGATGCTGATGGTTCTCG
801 AIATTTGCTTGGGGATCATAATGGGCTTCTTCACCTACTTGTAATCACTCATGAGAAGGAGAAAGTTACCGGACTCAAAA
$881$ Tigagctactggggaaactictattgcatcaaccatatcatacctagac $m{A}$ atgcttttgtcttcattggctcaagcta
961 GGAGATTCACAGCTTGTAAAGCTCAATCTCCAGCCTGACACCAAAGGTTCTTATGTGGAAGTTCTAGAGAGATATGTCAA
1041 TITAGGACCTATTGTGGACTTCTGTTGTTGATCTGGAAAGGCAAGGTCAAGGTCAGGTTGTAACTTGCTCTGGAGCCT
1121 ATAAGGATGGATCACTTCGTATTGTTCGAAATGGAATTGGCATAAATGAACAGGCGTCTGTGGAACTACAAGGGATCAAA
1201 GGAAIGIGGICTCTTAGAICTGCTACTGAIGATCCATAIGACACATICTTGGTTGTTAGCTTCAITAGIGAGACACGCGT
1281 TITGGCTATGAACCTTGAGGATGAGCTGGAAGAACTGAGATAGAAGGCTTCAATTCTCAAGTCCAGACCTTGTTTTGTC
1361 AIGAIGCIGTATACAACCAGCTTGTTCAGGTTACTTCAAATTCTGTTAGATTGGTCAGTTCTACCTCTAGAGATCTGAAA
1441 AACGAGTGGTTTGCCCCCAGTCGGCTACTCGGTCAATGTTGCAACTGCTAATGCCACTCAGGTACTATTGGCTACTGGGGG
1521 TGGCCATCTGGTATACCTAGAAATTGGTGATGGGGTGTTGAATGAA
1601 GCCTGGACATAAATCCAATTGGTGAAAATCCGAACTACAGTAACATTGCAGCAGTTGGAATGTGGACAGACA
1681 AGGATATATTCACTTCCTGACTTGAATCTCATTACAAAGGAACAGCTAGGAGGGGGGAGATAATTCCTCGTTCTGTTCTGAT
1761 GIGITCCTTCGAAGGGATATCTTATCTACTATGTGCTTTTGGGAGATGGCCATCTTTGAATTTTGTATTGAGCATGAGTP
1841 CTGGTGAGCTGACAGATAGGAAAAAAGTTTTGGGACACACAGCCCATAACACTTCGTACATTTGATAACATACT

GCIGCICCITITCIGAIGAIAGIAAIGIGIAIIAIIGCAIIGGAACIGCAIAIGIGAIGCCAGAGGAAAAI**G**AACCIACI CAAGAGCAGACCCGGACATTTGCTCTATGCAGTGTGAAGTATACTCAGTCAAATGCAGATGATGCTGAAATGCATTTTGT CCGCCTGTTGGATGATCAGACATTTGAGTTCATATCAACATATCCCCTTGACCAATTTGAATATGGCTGTTCCATACTAA 2401 AAGGGCCGAATTTTAGTTTTTATAGTTGAAGATGGAAAGCTCCAGCTAATTGCTGAGAAGGAAACTAAGGGAGCTGTCTA 1921 ACACATGTCTTTGCTGCCTCCGATAGGCCAACAGTTATTTACAGCAGTAACAAGAAGCTGCTTTATAGCAATGTAAATCT 2001 AAAAGAAGTTAGTCATAIGIGCCCATTCAAIGITGCAGCTTTTCCAGACAGCCTTGCAATCGCTAAAGAAGGTGAGTTAA CAAITGGCACTAITGAAAATTCAAAAGCTTCACAITCGTTCAATACCCCTTGGGGAGCATGCACGTCGCATCAGCCAT 2561 ATGGTGGCAGCCGAGAATTGCAGACAGAATGTGGACACCATGGTCATATATTAGCTCTTTATGTTCAAACACGTGGGAT TTCATTGTTGTTGGTGATTTGATGAAATCCATTTCTGCTGATTTTCAAGCATGAAGAGGGTGCTATAGAGGAGCAGG CAGAGACTATAATGCAAATTGGATGTCAGCTGTTGAGATTCTCGATGACATTTATCTTGGTGCTGCTGAAAAACTTCA TGCAGACAAACTTACGGAAAGTGATAAAGGGTGTGGGAGGTCTGAGCCATGAGCAGTGGAGGTCGTTTTACAATGAGAAG CTIGGCGAATTIGTTAATAGGTTTAGACATGGTTCACTTGTCATGCGACTACCAGATTCAGATGTTGGGCAGATACCCAC GATTTCAAAGGCTATGTCAGTTCCAGTTGAGGAACTAATGAAGAGAGTGGAAGAGTTGACAAGGTTGCATTAG 2881

WO 2005/037987 PCT/IL2004/000956

Ξig

241 Sasafkalpirpsitraygrvdadgsryllgdhnglihllvithekekvtglkiellgetsiastisyld ${f N}$ Afveigssy 721 QEQTRIFALCSVKYTQSNADDPEMHFVRLLDDQTFEFISTYPLDQFEYGCSILSCSFSDDSNVYYCIGTAYVMPEEN**E**PT 81 ATERYKECVLQWDTEASEVITRAMGDVSDRIGRPTDNGQIGIIDPDCRLIGLHLYDGLFKVIPFDNKGQLKEAFNIRLEE 161 LQVLDIKFLYGCPKPTIVVLYQDNKDARHVKTYEVSLKDKDFIEGPWAQNNLDNGASLLIPVPPPLCGVLIIGEETIVYC 321 GDSQLVKLNLQPDTKGSYVEVLERYVNLGPIVDFCVVDLERQGQGQVVTCSGAYKDGSLRIVRNGIGINEQASVELQGIK 401 GMWSLRSATDDPYDTFLVVSFISETRVLAMNLEDELEETEIEGFNSQVQTLFCHDAVYNQLVQVTSNSVRLVSSTSRDLK 801 KGRILVFIVEDGKLQLIAEKETKGAVYSLNAFNGKLLAAINQKIQLYKWASREDGGSRELQTECGHHGHILALYVQTRGD 1 MSVWNYVVTAHKPINVTHSCVGNFTGPQELNLIIAKCTRIEIHLLTPQGLQPMLDVPIYGRIATLELFRPHGETQDLLFI 481 NEWFAPVGYSVNVATANATQVLLATGGGHLVYLEIGDGVLNEVKYAKLDYDISCLDINPIGENPNYSNIAAVGMWTDISV 561 RIYSLPDINLITKEQLGGEIIPRSVLMCSFEGISYLLCALGDGHLLNFVLSMSTGELTDRKKVSLGTQPITLRTFSSKDT 641 THVFAASDRPTVIYSSNKKLLYSNVNLKEVSHMCPFNVAAFPDSLALAKEGELTIGTIDEIQKLHIRSIPLGEHARRISH 881 FIVVGDLMKSISLLIFKHEEGAIEERARDYNANWWSAVEILDDDIYLGAENNFNLFTVRKNSEGATDEERSRLEVVGEYH 961 LGEFVNRFRHGSLVMRLPDSDVGQIPTVIFGTVNGVIGVIASLPHDQYLFLEKLQTNLRKVIKGVGGLSHEQWRSFYNEK 1041 KTVDAKNFLDGDLIESFLDLSRNRMEEISKAMSVPVEELMKRVEELTRLH